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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/910,667 | 07/23/2001 | Jayant Shukla | | 3116 |

7590 12/13/2005
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EXAMINER

DERWICH, KRISTIN M

ART UNIT PAPER NUMBER

2132

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 09/910,667 | SHUKLA, JAYANT | |
| | Examiner | Art Unit | |
| | Kristin Derwich | 2132 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-12 are pending.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 6-12 rejected under 35 U.S.C. 101 because the disclosed invention is inoperative and therefore lacks utility. Claim 6 recites the term, "the method", however, there are no inventive steps following within independent claim 6. Therefore, it is inoperative because there are no steps describing how the method works and one of ordinary skill in the art cannot determine how it is operated.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 2 and 6-12 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "complete IP header and the transport layer header" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim. The scope of the claim is not clear since one of ordinary skill cannot ascertain which IP header and transport layer

Art Unit: 2132

header is inserted into the IP packet. Therefore, it is unclear whether the duplicate IP headers are duplicates of the IP packet they are inserted into or a different one.

Claim 6 recites a method, however, there are no inventive steps, therefore, the scope of the claim and its dependents cannot be discerned and a search cannot be conducted.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Hereafter patent literature that is referenced as prior art will be cited by column and line number in the form of (column number:line number range). For example, the citation (6:23-27) refers to lines 23-27 of the 6th column in the reference.

4. Claims 1-12 rejected under 35 U.S.C. 102(e) as being anticipated by Brustolini et al. (Brustolini), U.S. Patent No. 6,963,982.

As per claim 1:

Brustolini discloses a method for reversing the effect of intermediate NATs comprising the steps of:

Identifying parts of an IP packet that can be potentially modified by NATS (7:46-56);

Copying that information in its current form or copying it into a different format (7:46-56 wherein the information is copied into the table);

Inserting this information into an IP packet in a manner that keeps it protected from intermediate NATS (7:57-8:2, wherein the table info is inserted into the packet).

As per claim 2:

Brustolini further discloses a method wherein complete IP header and the transport layer header is inserted into the IP packet. Such a packet will have duplicate IP and transport layer headers or a duplicate IP or transport layer header (7:57-8:13).

As per claim 3:

Brustolini further discloses a method wherein the duplicate information is inserted into the IP packets of the same connection in a manner that keeps it protected from intermediate NATS (7:57-8:13).

With regard to claims 2 and 3, it is unclear which headers are duplicated, therefore the copied info from the tables, which contains header info, is inserted into the IP packet and duplicates what was originally there if it was going from VPN to Public Network and then vice versa.

As per claim 4:

Brustolini further discloses a method wherein the duplicate information is inserted into the IP packets of a different connection. In addition, there are identifiers inserted into the IP packets of both connections to correlate them (6:58-7:3). For any connection, the tables contains the identifiers to correlate the packets with their global information.

As per claim 5:

Brustolini discloses a method for studying the effect of intermediate NATS with the sole pupose of using it to partially or completely reverse the effect of intermediate NATS, comprising the steps of:

Identifying parts of an IP packet that can be potentially modified by intermediate NATS (7:46-56);

Identifying parts of an IP packet from same or different connections that contain information before intermediate NATS modified it (7:46-56);

Generating a look-up table that signifies the effect of intermediate NATS on the IP packets of that connection (7:38-56).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristin Derwich whose telephone number is 571-272-7958. The examiner can normally be reached on Monday - Friday, 8:00-5:30.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 571-272-3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2132

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


KMD

Kristin Derwich
Examiner
Art Unit 2132


GILBERTO BARRON JR.
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